

## Nikon VOA080AE

# Nikon Z 9 Professional Mirrorless Camera Instruction Manual

MODEL: VOA080AE

## 1. INTRODUCTION

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This instruction manual provides essential information for the safe and effective use of your Nikon Z 9 professional mirrorless camera. Please read this manual thoroughly before using the camera and keep it accessible for future reference. The Nikon Z 9 is designed for professional photographers and videographers, offering advanced features and robust performance.

## 2. PRODUCT OVERVIEW

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### 2.1 Key Features

- New 45.7-megapixel full-frame stacked CMOS sensor and ultra-fast EXPEED 7 processor.
- Powerful 493-point AF system, including 405 auto-area AF points.
- Four-axis tilting monitor for flexible viewing angles.
- Durable magnesium alloy construction for a balance of robustness and lightness.
- Capable of recording stunning 8K full-frame videos and in-camera time-lapse videos.

### 2.2 Package Contents

Ensure all the following items are present in your camera package:

- BF-N1 Body Cap
- EN-EL18d Li-ion Rechargeable Battery with terminal cover
- MH-33 Battery Charger
- EH-7P Charging AC Adapter (supplied with a plug adapter only in countries or regions where required; shape varies by country)
- HDMI/USB Cable Clip

- AN-DC24 Strap
- UC-E24 USB Cable
- BS-1 Accessory Shoe Cover (comes attached to the camera)



Figure 2.1: Front view of the Nikon Z 9 camera body, showcasing the Z mount.



Figure 2.2: Internal diagram illustrating the advanced sensor and optical path of the Nikon Z 9.

### 3. SETUP

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### 3.1 Battery Installation and Charging

1. Open the battery chamber cover located at the bottom of the camera.
2. Insert the EN-EL18d battery with the contacts facing the correct direction, then close the cover.
3. To charge the battery, use the MH-33 charger or connect the EH-7P AC adapter directly to the camera.

### 3.2 Memory Card Insertion

The Nikon Z 9 supports XQD cards. Ensure the camera is off before inserting or removing memory cards.

1. Open the memory card slot cover on the side of the camera.
2. Insert the XQD card into the slot until it clicks into place.
3. Close the memory card slot cover securely.



Figure 3.1: Memory card slots of the Nikon Z 9, illustrating proper card insertion.

### 3.3 Lens Attachment

The Nikon Z 9 uses the Nikon Z mount. Compatible lenses include NIKKOR Z lenses and F-mount NIKKOR lenses with the FTZ mount adapter.

1. Remove the body cap from the camera and the rear lens cap from the lens.
2. Align the mounting marks on the lens with the mounting mark on the camera body.
3. Rotate the lens counter-clockwise until it clicks into place.



Figure 3.2: Nikon Z 9 with a NIKKOR Z lens attached, ready for use.

### 3.4 Initial Power On

After installing the battery and memory card, turn the camera on using the power switch. Follow any on-screen prompts for initial setup, such as setting the date and time.

## 4. OPERATING THE CAMERA

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### 4.1 Basic Photography

The Nikon Z 9 offers a 45.7 MP full-frame sensor for high-resolution still images. Select your desired shooting mode (e.g., Program, Shutter-priority, Aperture-priority, Manual) using the mode dial. Adjust ISO, aperture, and shutter speed as needed. The camera supports burst shooting up to 120 frames per second.

### 4.2 Video Recording

The Z 9 is capable of recording 8K video. To start recording, switch to video mode and press the dedicated video record button. Monitor your footage using the tilting screen.

### 4.3 Autofocus System

Utilize the advanced 493-point autofocus system for precise subject tracking. The camera features 405 auto-area AF points, enhancing subject detection and tracking performance across the frame.

### 4.4 Monitor Usage

The four-axis tilting monitor allows for flexible viewing angles, facilitating shooting from high or low perspectives. Use the touch functionality for menu navigation and focus point selection.



Figure 4.1: User interacting with the Nikon Z 9's tilting LCD screen.

### 4.5 Connectivity

Connect the camera to a computer or other devices using the USB port for data transfer. The camera also supports wireless connectivity for remote control and image transfer.

## 5. MAINTENANCE

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### 5.1 Cleaning

- **Camera Body:** Use a soft, dry cloth to clean the camera body. For stubborn dirt, lightly dampen the cloth with distilled water.
- **Lens:** Use a lens brush or blower to remove dust. For smudges, use a lens cleaning solution and a microfiber cloth.
- **Sensor:** Sensor cleaning should be performed by authorized service personnel or with extreme care using specialized tools.

### 5.2 Battery Care

- Store batteries in a cool, dry place when not in use.
- Avoid fully discharging the battery frequently to prolong its lifespan.
- Charge the battery fully before extended storage.

### 5.3 Storage

When storing the camera for long periods, remove the battery and memory card. Store the camera in a dry, well-ventilated area, preferably in a camera bag or case to protect it from dust and impact.

## 6. TROUBLESHOOTING

If you encounter issues with your Nikon Z 9, refer to the following general troubleshooting steps:

- **Camera not powering on:** Check if the battery is charged and correctly inserted.
- **Images not saving:** Ensure a memory card is inserted and has sufficient free space. Check card compatibility.
- **Autofocus issues:** Verify that the lens is properly attached and that the AF mode is suitable for your subject.
- **Error messages:** Consult the camera's on-screen error code for specific guidance. If the issue persists, contact Nikon customer support.

## 7. SPECIFICATIONS

| Feature                    | Specification     |
|----------------------------|-------------------|
| Brand                      | Nikon             |
| Model Name                 | NIKON HYBRIDE Z 9 |
| Product Type               | Mirrorless        |
| Model                      | VOA080AE          |
| Effective Still Resolution | 45.7 Megapixels   |
| Maximum Format Size        | Full Frame        |
| Photo Sensor Technology    | BSI CMOS          |
| Video Resolution           | 8K                |
| Burst Mode Speed           | 120 FPS           |
| Autofocus Points           | 493               |
| Image Stabilization        | True              |
| Screen                     | 8 centimeters LED |
| Viewfinder Type            | Electronic        |
| Connectivity Technology    | USB               |
| Supported Formats          | XQD Card          |
| Battery Type               | Lithium-ion       |
| Compatible Mounts          | Nikon F, Nikon Z  |
| Minimum Shutter Speed      | 1/32,000 Seconds  |
| Maximum Shutter Speed      | 900 Seconds       |
| Maximum Aperture           | 2.8 Millimeters   |
| Expanded ISO Maximum       | 51200             |
| Minimum Expanded ISO       | 1                 |

| Feature                        | Specification          |
|--------------------------------|------------------------|
| Item Weight                    | 1340 Grams             |
| Product Dimensions (L x W x H) | 14.95 x 14.9 x 9.05 cm |
| Model Year                     | 2021                   |
| Water Resistance Level         | Not Water Resistant    |

## 8. WARRANTY AND SUPPORT

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### 8.1 Manufacturer Warranty

The Nikon Z 9 comes with a 1-year manufacturer's warranty covering parts and labor. Please retain your proof of purchase for warranty claims.

### 8.2 Customer Support

For technical assistance, service, or further information, please visit the official Nikon support website or contact your local Nikon service center. You can find contact details and FAQs on the [Nikon Global Support website](#).

